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REMARKS

An early examination and notice of allowance are earnestly solicited. Should the Examiner wish to discuss any of the amendments and/or remarks made herein, the undersigned attorney would appreciate the opportunity to do so.

Respectfully submitted,

Date: 21) k. /

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Claims 1-10 are cancelled.

11. A shank-end tool for the milling-type machining of chipless materials for
the manufacture of molds, especially heat-resistant casting molds for producing metal
castings, said tool comprising:
a shank portion having a longitudinal axis, a first end that can be connected
detachably to a drive device and a second end with a groove-shaped recess extending
in the longitudinal direction; and
a cutter blade in said groove and fixedly attached to the shank, said cutter
blade having a flat leading face in a direction of advance during use,
wherein the cutter blade is provided with a wear resistant blade edge on the
leading face.
12. A shank-end tool in accord with Claim 11, wherein the cutter blade is a
flat blank of a material selected from the group consisting of steel, wear-resistant
steel, or a wear-resistant material, and wherein said blade edge is at a right angle to
the flat leading face.
13. A shank-end tool in accord with Claim 11, cutter blade further
comprising a trailing edge behind the blade edge when viewed in the direction of
advance, wherein the blade edge and the trailing edge are rounded.
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14. A shank-end tool in accord with Claim 11, wherein the flat leading face of
the cutter blade has a rounded corner or a corner cut at an angle.

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15. A shank-end tool in accord with Claim 11, wherein the flat leading face of
the cutter blade has an outer contour with a circular arc or conical shape.
16. A shank-end tool in accord with Claim 11, the cutter blade further
comprises a curved surface having a convex face or a bent surface, parallel to the
longitudinal axis, with the convex face of the curved surface or of the bend pointing in
a direction of rotation of the shank in use.
17. A shank-end tool in accord with Claim 11, wherein the cutter blade
further comprises shovel-like blade folds that are sloped with a blade angle relative to
the longitudinal axis to produce fan-like action.
18. A shank-end tool in accord with Claim 11, wherein the cutter blade
comprises a material selected from the group consisting of a metal, a high-strength
elastically deformable material, and a springy material.
19. A shank-end tool in accord with Claim 11, wherein the cutter blade
comprises a steel base material and is provided with a wear-protective covering on the
leading flat face, the wear-protective covering being a material selected from the group
consisting of a hard substance, a metal composite containing hard substances. and a
metal alloy containing a hard substance.
20. A shank-end tool in accord with Claim 11, wherein the shank comprises
a tubular or cylindrical hollow body at least at the second end.
21. A method for the milling-type machining of chipless materials for the
manufacture of heat-resistant molds, said method comprising:
providing a shank-end tool comprising:

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a shank portion having a longitudinal axis, a first end that can be
connected detachably to a drive device and a second end with a groove-
shaped recess extending in the longitudinal direction; and
a cutter blade in said groove and fixedly attached to the shank,
said cutter blade having a flat leading face in a direction of advance
during use,
wherein the cutter blade is provided with a wear resistant blade
edge on the leading face:
machining a chipless material with the shank-end tool to provide a finished
form.
22. A method for the milling-type machining of chipless materials in accord
with claim 21, wherein the cutter blade is a flat blank of a material selected from the
group consisting of steel, wear-resistant steel, or a wear-resistant material, and
wherein said blade edge is at a right angle to the flat leading face.
23. A method for the milling-type machining of chipless materials in accord
with Claim 21, wherein the cutter blade further comprises a trailing edge behind the
blade edge when viewed in the direction of advance, wherein the blade edge and the
trailing edge are rounded.
24. A method for the milling-type machining of chipless materials in accord
with Claim 21, wherein the flat leading face of the cutter blade has a rounded corner
or a corner cut at an angle.
25. A method for the milling-type machining of chipless materials in accord
with Claim 21, wherein the flat leading face of the cutter blade has an outer contour
with a circular arc or conical shape.

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- 26. A method for the milling-type machining of chipless materials in accord with Claim 21, wherein the cutter blade further comprises a curved surface having a convex face or a bent surface, parallel to the longitudinal axis, with the convex face of the curved surface or of the bend pointing in a direction of rotation of the shank in use.
- 27. A method for the milling-type machining of chipless materials in accord with Claim 21, wherein the cutter blade further comprises shovel-like blade folds that are sloped with a blade angle relative to the longitudinal axis to produce fan-like action.
- 28. A method for the milling-type machining of chipless materials in accord with Claim 21, wherein the cutter blade comprises a material selected from the group consisting of a metal, a high-strength elastically deformable material, and a springy material.
- 29. A method for the milling-type machining of chipless materials in accord with Claim 21, wherein the cutter blade comprises a steel base material and is provided with a wear-protective covering on the leading flat face, the wear-protective covering being a material selected from the group consisting of a hard substance, a metal composite containing hard substances and a metal alloy containing a hard substance.
- 30. A method for the milling-type machining of chipless materials in accord with Claim 21, wherein the shank comprises a tubular or cylindrical hollow body at least at the second end.